Project Title: Coleman Creek Irrigation Delivery Improvements

[If your Watershed Plan Implementation and Flow Achievement Request is related to or part of a Operational Project Funding Request for 2009-11 please cross-reference the name of that project in parenthesis above]

County: Kittitas

WRIA: 39

If more space is needed attach additional sheets

1. Applicant Information		
Applicant name	Phone no.	Fax no.
Kittitas County Conservation District	(509) 925-8585	(509) 925-8591
Address		
607 E Mountain View		
City	State	Zip code
Ellensburg	WA	98926
Email address		
a-lael@wa.nacdnet.org		9
Water right holder name (If applicable and if other	Phone Number	Fax Number
than applicant)	(509) 925-5498	()
Ellensburg Water Company		
Mailing address		
503 E Third		
City	State	Zip code
Ellensburg	WA	98926

2. Project Location	
Project name Coleman Creek Pipeline Project	
Project location Approximately 2 miles east of Ellensburg, in Sections 9 and 16 of T17N R19E	
Stream reach mile or location Coleman Creek Stream Miles 2 to 3.85 (Tjossem Road to EWC Intersection)	

3. Project Type and Description	
(Check all that apply)	
Conservation and/or infrastructure improvement (pumps and pipes)	
Water storage feasibility study	
Water exchange or water right acquisition	

Please describe your project in detail:

The Coleman Creek Pipeline Project involves the delivery of Ellensburg Water Company (EWC) water to shareholders along Coleman Creek. The shareholders maintain diversion structures in Coleman Creek that are barriers to fish passage and that are not properly screened to prevent entrainment of salmonids and other aquatic species into the irrigation systems. This project proposes to provide alternate delivery mechanisms to the downstream shareholders in order to allow for the eventual decommissioning of the instream structures. The project also proposes to assist the shareholders to complete irrigation efficiency improvement plans for the lands that are served by the diversions or that contribute tailwater back to lower Coleman Creek.

The Kittitas County Conservation District (KCCD), as part of the Yakima Tributary Access and Habitat Program, has been working in the lower reaches of Coleman Creek to remove barriers to fish passage, install fish screens and improve both instream and riparian habitat. The lowermost barrier was removed in 2004, opening 0.5 miles of habitat. The project included a fish screen, riparian planting and instream habitat structures. In late 2008, construction of a project to address the third barrier was initiated. It involves irrigation system improvements that will result in the decommissioning of an irrigation diversion and entering saved water in the Trust Water Rights program. In early 2009, a project to remove the second barrier and install a fish screen will be constructed. In total, that will provide nearly 1.5 miles of additional habitat on lower Coleman Creek. The next barriers to be addressed are part of this application.

In 2008, the KCCD successfully applied to the Salmon Recovery Funding Board (SRFB) for funding to design and engineer a structure to properly separate the EWC canal and Coleman Creek. That grant application included funding to design and engineer an intersection that allows for fish passage and protects aquatic species from entrainment in the system. The application also includes funding for a feasibility study regarding the delivery of EWC water to downstream shareholders on Coleman Creek. The purpose of this feasibility study is to determine preferred alternatives to address fish passage, fish screening, and irrigation efficiencies improvements on Coleman Creek in the reach addressed by this grant application.

The information taken from this feasibility study will be further developed through meetings with EWC and the shareholders and the engineering firm in order to design and engineer the necessary pipeline facilities and other irrigation improvements. Construction of the facilities will follow. Full implementation of the preferred alternatives on the several hundred acres is likely to require additional funding, including use of the USDA Natural Resource Conservation Service's Environmental Quality Incentives Program and the Irrigation Efficiencies program. As a first step, converting an existing earthen EWC lateral that serves the lands affecting Coleman Creek to a pipeline is proposed for design and construction. It is possible that the feasibility study and subsequent pre-design reports will identify other pipeline routes as a higher priority, this pipeline is providing a placeholder for a known project on these lands.

Use this box to make any other comments regarding the project and water rights involved In addition to the Yakima River water rights held by the Ellensburg Water Company, they also divert and utilize non-project return flows from the upslope lands under the Cascade Irrigation District. The right to these return flows has been identified by the courts during the ongoing adjudication. Generally, the EWC is allowed to withdraw up to 15 cubic feet per second (if return flows in that volume are available) from the creeks that it intersects. Any efficiency improvements reduce the need for these return flows. Individual shareholders on a creek also have the opportunity to withdraw and utilize return flows. In the reach of Coleman Creek addressed by this project, two diversion structures on Coleman Creek exist for this purpose. Improvements to application and delivery systems have the potential to eliminate the need for these instream structures and for the return flows.

Describe the project by task (statement of work)

Task 1- Project Administration: KCCD staff will provide grant and financial management for the project. This will include monthly vouchers, required monthly or quarterly reports and general administration of the project. Deliverables: Monthly vouchers and monthly or quarterly reports.

Task 2- Feasibility Study and Pre-Design: Assist a professional engineering firm, the EWC and the shareholders to complete a feasibility study focused on the delivery of EWC irrigation water to shareholders at the Coleman Creek/EWC intersection. The feasibility study report will lead to the selection of preferred alternatives and a predesign effort for each of the alternatives.

Deliverables: Feasibility Study Report and Pre-Design Report.

Task 3- Cultural Resource: Once the preferred alternatives are selected, including pipelines, sprinkler systems, etc., the cultural resource survey and report process will be initiated. After the 30 day comment period on the "area of potential effect" (APE), a cultural survey will be completed and submitted for the final 30 day comment period.

Deliverables: Concurrence with the cultural resources report for the preferred alternatives.

Task 4- Design: The highest priority alternative(s) will be continued through the design phase by the contracted project engineers. Design review(s) will be conducted with the YTAHP Technical Work Group, as well as the EWC and impacted shareholders. A final bid ready design will then be prepared.

Deliverables: Bid ready designs for pipeline construction.

Task 5- Construction: Construct and install 7,392' of 24" diameter pressurized pipe from the EWC headgates R1 and R2 south to Tjossem Road. Construction will be managed and observed by both KCCD technical staff and the contracted project engineers.

Deliverables: Construction of 7,392 feet of pipeline, EWC Headgates R1 & R2 to Tjossem Road.

4. Project Budget

Project Budget: \$854,514

The project budget was developed with the assistance of a professional engineering firm and uses recent costs for similar projects.

Total budget by project task or by expenditure

BY EXPENDITURE (OBJECT)

Salaries & Benefits

Administration: \$3,000 Technical: \$25,000

Professional Services

Cultural Resources: \$10,000 Design and Engineering: \$47,200

Easement Acquisition

Franchise Agreement: \$15,000

Project Construction

Pipeline: \$739,200

Indirect

25% of KCCD Staff Time: \$7,000

1% of Remainder of Project Costs: \$8,114

Total Project Cost: \$854,514

BY TASK

Task 1- Project Administration: \$3,750

Task 2- Feasibility Study and Pre-Design: \$35,742

Task 3- Cultural Resource: \$10,100

Task 4- Design: \$45,830

Task 5- Pipeline Construction: \$759,092

Total Project Cost: \$854,514

5. Funding Source Information

Total project amount expected to be provided by sources other than this program (dollar total and percent of project budget)

\$72,200 (8%)

Identify sources and type of funding other than through this program grant. Include expected dates of participation. Include as an attachment; letters of commitment, offer letters, application approvals, etc.

Source and type of funding: Salmon Recovery Funding Board Grant to professional engineering assistance and staff time.

Amount: \$29,200

Status: Approved and proceeding to contract

Dates of participation: 3/1/09 to 1/31/10

Source and type of funding: Bonneville Power Administration- YTAHP for salaries/benefits, cultural

resource surveys and engineering and design.

Amount: \$43,000 Status: Contracted

Dates of participation: 4/1/09 to 3/31/10

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

6. Instream Flow and other Instream H	abitat Benefits	
A. Water Right Information - Attach Water Right (You may skip this section if this application is for		dy funding
Water right holder's name (if other than applicant) Ellensburg Water Company	Phone no: (509) 925-5498	Fax no:
Address 502 E Third	I Samuel	
City Ellensburg	State WA	Zip code 98926
Complete legal description of the property attached to the The EWC water right covers 9,749 acres with a extensive a portion of that are in the vicinity of Coleman Creek (The Water right number: 0194)	e legal description. This	
Parcel number associated with this water right: Multiple parcel numbers as the right covers nearly 10,000	0 acres.	
Do you own the property proposed for this project? If no No, the KCCD does not own the right, nor the property. Company and the lands to which the water is applied are	t, please explain: The right is owned by the	
If the grant applicant is not the water right holder, please Ellensburg Water Company holds the water right for the is working in cooperation with EWC and the shareholder	lands addressed by this a	application. The KCCD
Water source <u>-</u> (Stream name). Yakima River, Coleman C	Creek	
B. Water Usage		
Has water been put to beneficial use in the past five years	s?	
Yes ⊠ No □ I don't know □		
Describe that use in terms of the specific beneficial use d	luring that period:	
All lands served by this Ellensburg Water Company late significance. They currently produce timothy hay, or rot		
(Please attach any available documents that verify that uphotographs, power company records, flow meter record FSA records)		

Has beneficial use of this water ceased for a period of five or more years during any period since 1967? Yes ☐ No ☒
Please describe the beneficial use for the water quantified under the water right discussed above. Describe the following: purpose (examples: domestic, irrigation, municipal); system type; if irrigation, describe crop type.
The purpose of the water right is for irrigation. The lands the water is applied to produce timothy hay or rotational crops (sweet corn, small grains, etc.).
Quantify as nearly as possible current water use:
Instantaneous rate (QI) of use: 10 CFS (total EWC water right is 125 CFS)
Annual rate (QA) of use 2,500-3,000 ACRE- FEET
Historic beneficial use quantity of the water right (highest of the last 5 years/ irrigation seasons in instantaneous and annual quantities)
<u>10</u> CFS <u>2500-3000</u> ACRE-FEET
If irrigation, how many acres are irrigated under this water right? 460
Are there other water rights associated with this specific water right? In addition to the Yakima River water right, EWC has rights to non project return flows from the upslope irrigation district (Cascade Irrigation District). Some of this return flow is captured in streams (e.g. Coleman, Currier, Cooke, etc). The individual shareholders under EWC also withdraw return flows from within the EWC service area. Some of these flows come directly from an upslope field, others are withdrawn from the waterway they flow into. The reach of Coleman Creek addressed by this project includes three private diversion structures, two of which have no natural flow rights and divert only return flows.
In order to process this pre-application ecology requires the following information (include for the previous five years; please attach copies of all documents and maps)
♦ Power data (contact local power utility for pump records, etc.)
♦ Historical crop type data (contact local FSA office)
♦ Flow meter records (contact local power utility)
♦ Aerial photos (contact local FSA office)

C. Estimated Total Water Savings

Infrastructure projects: Estimate the water to be conserved through this project. Provide engineering or technical analysis to support this estimate.

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
QA (ACRE-FEET)													
QI (CFS)													

D. Additional Instream Benefits

Describe other instream benefits envisioned as a result of funding this project:

This project is the third in a long term process to address fish screening, fish passage and instream flow in lower Coleman Creek. The first phase addressed the lowermost barrier, an unscreened diversion and the tail end of Bull Canal. A project was completed in 2004 that removed the barrier, provided a fish screen and blocked access into the lower reaches of Bull Canal. The second phase is currently under construction and addresses the second and third barriers on Coleman Creek. It involves the installation of a fish screen and correction of a fish passage barrier at the second diversion, and the installation of sprinkler systems that will allow the third diversion to be decommissioned. As a result of the sprinkler installation, a portion of the 1869 water right will be placed in the Trust Water Rights program in perpetuity. The third phase (addressed in part by this grant application) involves the next 5 barriers on Coleman Creek. All of these barriers are associated with Ellensburg Water Company (EWC). The lower three are structures that divert EWC water or return flows from EWC lands. The fourth is the EWC Coleman Creek intersection and the fifth is EWC's diversion from Coleman Creek. A recently approved Salmon Recovery Funding Board grant will fund engineering and design of the siphon structure to separate EWC and Coleman Creek, as well as completing a feasibility study for improved methods of delivery for the EWC water to downstream users and on-farm irrigation efficiency improvements. The 1.4 mile long pipeline proposed for this application is a top candidate for the improved delivery system. It is a major lateral for EWC that serves 460 acres. Those lands are all rill irrigated, with their return flow used and reused by downslope lands, until they ultimately return to Coleman Creek. The pipeline proposed would be the first step in converting these lands to more efficient irrigation application systems, thereby improving the water quality in lower Coleman Creek, as well as reducing the need for EWC to withdraw return flows from Coleman Creek at the top of the reach addressed by this project. In addition, it will reduce the need for the downstream shareholders to withdraw return flows from the middle of the reach addressed by this project.

Periodic fish monitoring efforts have occurred in lower Coleman Creek as part of the Yakima Tributary Access & Habitat Program. Initially, salmonids (spring Chinook) were found only below the first barrier. After the barrier was removed juvenile spring Chinook were found immediately below the next barrier (0.5 miles upstream). It is anticipated that spring Chinook, along with resident rainbow trout and other species will continue to utilize the upstream habitat as the barriers are removed. Improvements to that available habitat are critical to providing quality, along with quantity.

7. Resources currently committed to ensure long-term performance of the proposed project (operation and maintenance).
Who is responsible for long-term operation and maintenance of the project? The shareholders would be responsible for the long term operation and maintenance of the pipeline.
Have operation and maintenance costs been identified? Yes \(\subseteq \) No \(\subseteq \)
If yes, please describe:
Summarize these costs on an annual basis below:
Are measurement devices other than diversion source meters necessary to monitor compliance with the project intent or plan? Yes \bigcap No \bigcap If yes, please describe:
Does a water measurement device exist on the source <u>and</u> downstream of the proposed project? yes no
If no, will a water measurement device be installed as part of this project? Yes \(\subseteq \) No \(\subseteq \) If yes, describe location and operating entity:
If yes, provide the river mile:
What is the nearest stream gage downstream of the proposed project? Source name
River mile: KCCD has collected stream flow information on Naneum Creek at Fiorito ponds for the last 4 years. An official stream gage is located on Wilson Creek at Thrall Road. That gage is maintained by the USBR.

			nd permits. Provide documentation for these opriate (submit two (2) copies of all required
Funding Boa	ty report has not been initiated, however and that will fund the feasibility report has ork can begin immediately on the feasibility	been	approved. It should be contracted in early
documented	ject proponent own the land for the propo access to the right of way or owns an eas documentation including title report as ap	emen	t to the property proposed (please attach
	the proposed project is owned by Kittitas and the new pipeline project would also		nty Public Works. The existing ditch is in the the right-of-way.
Design/Engir	neering Status:		
Pre-p	planning (pre - permitting)	\boxtimes	Status: Feasibility study report will be initiated in first 60 days of 2009 and completed by 6/30/09.
Pre-d	lesign (design reports) (10%)		Status:
Schei	matic design (30%)		Status:
Desig	gn development (75%)		Status:
Cons	truction documents (95%)		Status:
Bid d	locuments (ready for bid)		Status:
Permit Status	S		
SEPA	A		Status:
401			Status:
Dept.	. of Fish and Wildlife consultation		Status:
Stora	ge and/or Secondary Use Permit		Status:
Other	r: (Cultural Resources (Executive Order 0	(5-05	
		\boxtimes	Status: Will be initiated during the pre-design phase
Other	r:()		Status:
Other	r: ()		Status:

9. Signatures (send this sheet electronically and by original signature in surface mail)

I certify that the information above is true and accurate to the best of my knowledge.

I understand that in order to process my application, I am hereby granting staff from the Department of Ecology access to the above site(s) for inspection and monitoring purposes.

If assisted in the preparation of the above application, I understand that all responsibility for the accuracy of the information rests with me.

I also understand that I may rescind this application at any time prior to signing the Agreement with no other obligations or requirements.

(Applicant/ Grant Recipient) (Date)

Ellensburg Water Co. Langerone 12/30/08 (Water Right Holder) (SUP+.) (Date)

(Land Owner(s) of Existing Place of Use)

1 / 12 / 09
(Date)

For More Information Contact:

Dave Burdick

Voice: (360) 407-6094

Email:

dbur461@ecy.wa.gov

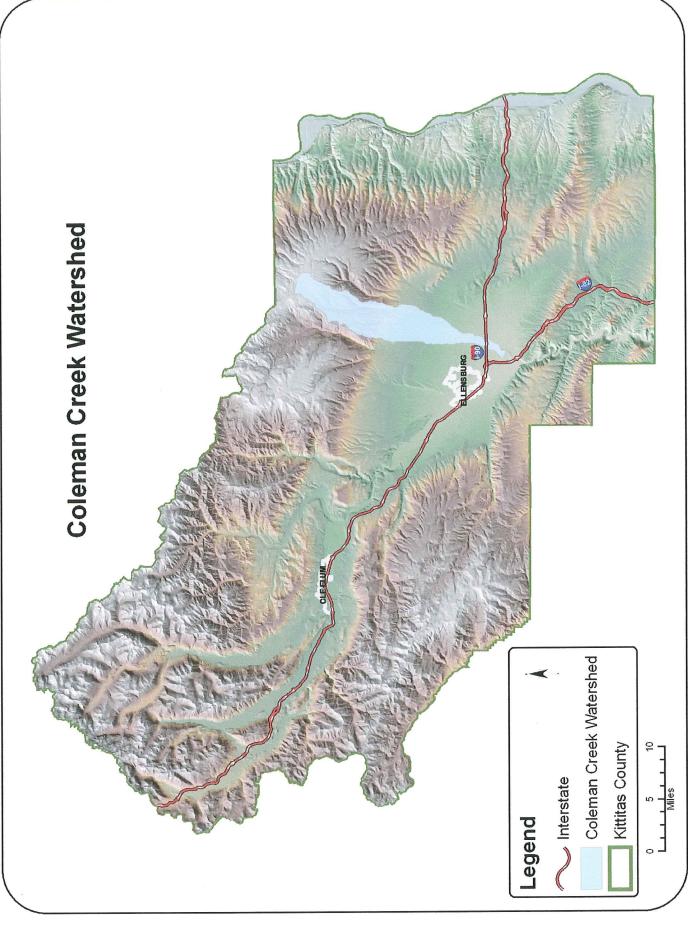
Web: http://www.ecy.wa.gov/watershed/Index.html

If you need this document in an alternate format, please call the Water Resources Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

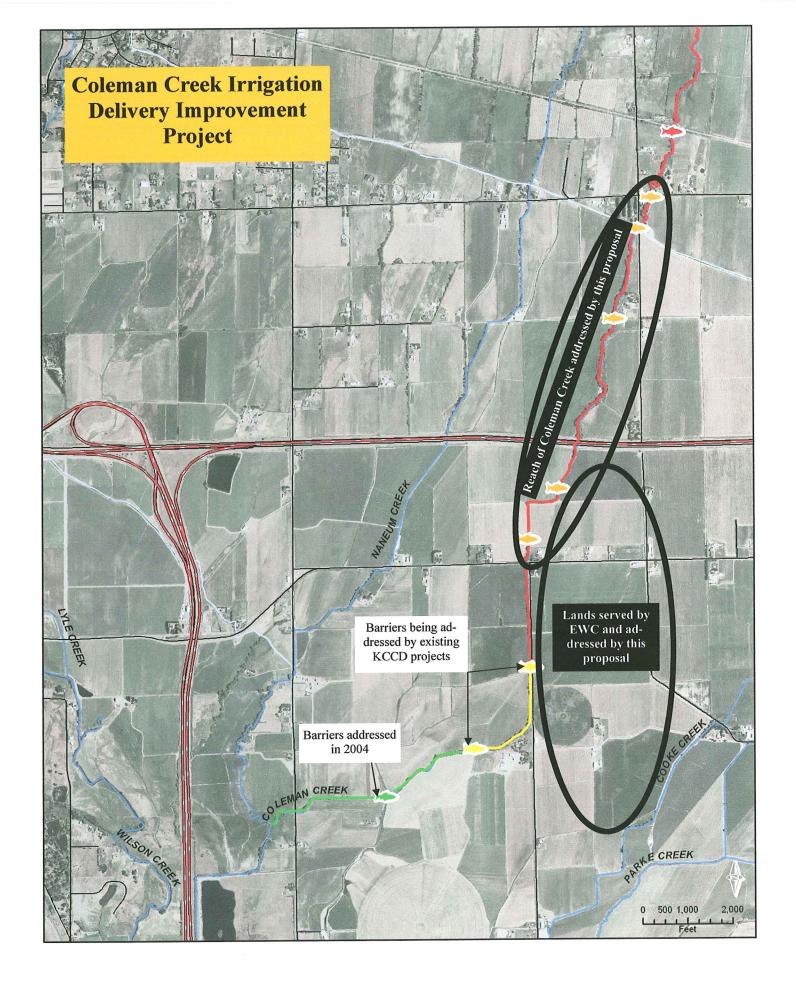
	TO DECT
	A ILLIGATION
(
(Š

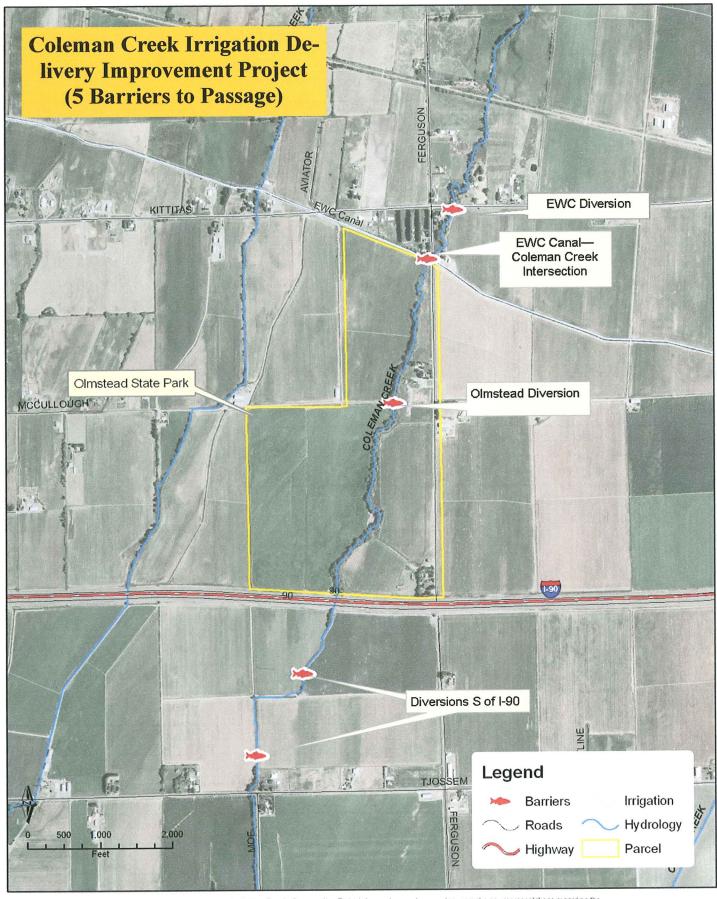
Coleman Creek migation improvement ribject	
KCCD Staff	28,000
Cultural Resource Survey	10,000
Design/Construction Oversight	47,200
Easement Acquisition	15,000
Pipeline to Tjossem Road	739,200
Indirect	15,114
Total Project Cost	\$854,514
SRFB Grant	\$29,200
ҮТАНР	\$43,000
Total Request Infrastructure Grant	\$782,314

\$3,750 \$35,742 \$10,100 \$45,830 \$759,092 **\$854,514** Task 1- Project Administration:
Task 2- Feasibility Study and Pre-Design:
Task 3- Cultural Resource:
Task 4- Design:
Task 5- Construction:



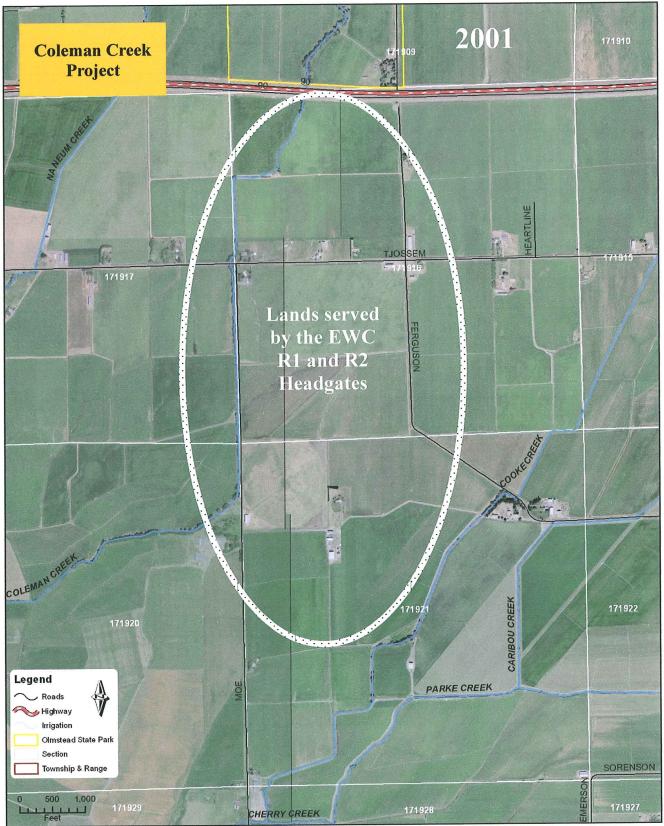
The data used for this maplexhibit is provided "as is" without warranty of any kind. Further, the Kittitas County Conservation District does not warrant, guarantee, or make any representations regarding the use of, or results from the use of the data in terms of correctness, accuracy, reliability, currentness, or otherwise.





This data is provided "as is" without warranty of any kind. Further, the Kittitas County Conservation District does not warrant, guarantee, or make any representations regarding the use of, or results from the use of the data in terms of correctness, accuracy, reliability, currentness, or otherwise. Photo may not be ortho-rectified.

Produced by the Kittitas County Conservation District on 6/23/2008



This data is provided "as is" without warranty of any kind. Further, the Kititias County Conservation District does not warrant, guarantee, or make any representations regarding the use of, or results from the use of the data in terms of correctness, accuracy, reliability, currentness, or otherwise. Photo may not be ortho-rectified.

Produced by the Kititias County Conservation District on 12/30/2008



This data is provided "as is" without warranty of any kind. Further, the Kittitas County Conservation District does not warrant, guarantee, or make any representations regarding the use of, or results from the use of the data in terms of correctness, accuracy, reliability, currentness, or otherwise. Photo may not be ortho-rectified.

Produced by the Kittitas County Conservation District on 12/30/2008



This data is provided "as is" without warranty of any kind. Further, the Kittitas County Conservation District does not warrant, guarantee, or make any representations regarding the use of, or results from the use of the data in terms of correctness, accuracy, reliability, currentness, or otherwise. Photo may not be ortho-rectified.

Produced by the Kittias County Conservation District on 12/30/2008



This data is provided "as is" without warranty of any kind. Further, the Kittitas County Conservation District does not warrant, guarantee, or make any representations regarding the use of, or results from the use of the data in terms of correctness, accuracy, reliability, currentness, or otherwise. Photo may not be ortho-rectified.

Produced by the Kittitas County Conservation District on 12/30/2008



This data is provided "as is" without warranty of any kind. Further, the Kittitas County Conservation District does not warrant, guarantee, or make any representations regarding the use of, or results from the use of the data in terms of correctness, accuracy, reliability, currentness, or otherwise. Photo may not be ortho-rectified.

Produced by the Kittitas County Conservation District on 12/30/2008